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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,818	11/13/2003	Takehiro Nakayama	245395US90	7869
22850	7590	08/23/2005	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			HUYNH, CHUCK	
			ART UNIT	PAPER NUMBER
			2683	

DATE MAILED: 08/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.		Applicant(s)	
	10/705,818		NAKAYAMA ET AL.	
	Examiner		Art Unit	
	Chuck Huynh		2683	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 November 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-13 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 2, 9, 12, 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Craft et al. (hereinafter Craft).

Regarding claim 1, Craft discloses a communication terminal comprising:

acquiring means for acquiring a value entity accompanied by a public key corresponding to a specific private key (Page 2, [0015]; Page 4, [0035]);

receiving means for receiving an application electronically signed by the private key, through an ad hoc (Page 3, [0026]) network;

verifying means for verifying the application through the use of the public key (Fig. 2, no. 220; Page 2, [0015]; Page 4, [0035]); and

transferring means for transferring the value entity through the use of the application when the verifying means successfully verifies the application (Page 5, [0049 – 0051]).

Regarding claim 2, Craft discloses the communication terminal according to Claim 1, wherein the verifying means initiates the verification of the application in conjunction with an opportunity where the receiving means receives the application (Page 5, [0055]),

the communication terminal further comprising starting means for starting the application in conjunction with an opportunity where the verifying means successfully verifies the application (Page 5, [0056]).

Regarding claim 9, Craft discloses an application delivery server comprising:

application transmitting means for transmitting the application through the ad hoc network to the communication terminal as set forth in Claim 1 (Page 2, [0022], [0024]);
and

value entity acquiring means for acquiring the value entity transferred by the transferring means of the communication terminal, through the ad hoc network (Page 3, [0025], [0026]).

Regarding claim 12, Craft discloses an electronic procurement supporting method comprising:

an acquiring step wherein a communication terminal makes acquiring means acquire a value entity accompanied by a public key corresponding to a specific private key (Page 5, [0056]);

receiving step wherein the communication terminal makes receiving means receive an application electronically signed by the private key (Page 5, [0056]), through an ad hoc network (Page 3, [0026]);

a verifying step wherein the communication terminal makes verifying means verify the application through the use of the public key (Page 5, [0056]); and

a transferring step wherein, when the verifying means successfully verifies the application, the communication terminal makes transferring means transfer the value entity through the use of the application (Page 4, [0046]).

Regarding claim 13, Craft discloses an electronic procurement supporting program, which can be executed by a communication terminal, the electronic procurement supporting program letting the communication terminal substantialize:

an acquiring function of acquiring a value entity accompanied by a public key corresponding to a specific private key (Page 5, [0056]);

a receiving function of transferring means transfer the value entity receiving an application electronically signed by the private key (Page 5, [0056]), through an ad hoc network (Page 3, [0026]);

a verifying function of verifying the application through the use of the public key (Page 5, [0056]); and

a transferring function of transferring the value entity through the use of the application when the application is successfully verified by the verifying function (page 4, [0046]).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 3, 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Craft in view of Anderson et al. (hereinafter Anderson).

Regarding claim 3, Craft discloses all the particulars of the claim except the communication terminal according to claim 1, further comprising:

deleting means for deleting the application in conjunction with an opportunity where a predetermined time has elapsed since a time when the receiving means received the application.

However, Anderson does disclose deleting means for deleting the application in conjunction with an opportunity where a predetermined time has elapsed since a time when the receiving means received the application (Page 17, [0435, 0436]).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Anderson's disclosure to provide certain time limit to application usage.

Regarding claim 4, it is well known in the art that the communication terminal according to claim 1, that once an application is downloaded from a sender, the process is completed, which entails the disconnection from the downlink connection; therefore it is well known in the art that deleting means for, where a communication with a sender of the application is disconnected after the reception of the application by the receiving means; however, Craft discloses all the particulars of the claim except the fact that deleting the application in conjunction with an opportunity where predetermined time has elapsed since the disconnection of the communication, which pertains to a trial period since the application was downloaded.

Anderson does disclose deleting the application in conjunction with an opportunity where predetermined time has elapsed since the disconnection of the communication, which pertains to a trial period since the application was downloaded (Page 17, [0435, 0436]).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Anderson's disclosure to provide certain time limit to application usage.

5. Claim 5, 7, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Craft in view of Fishman et al. (hereinafter Fishman).

Regarding claim 5, Craft discloses a all the particulars of the claim such as a value entity providing server comprising providing means for providing a value entity

accompanied by a public key corresponding to a specific private key (Page 2, [0015]); but does not disclose the limitation of communicating through a cellular network, for the communication terminal as set forth in claim 1.

However, Fishman does disclose implementing a cellular network comprising of an ad hoc network using public and private keys for secure communication (Abstract; Page 1, [0007]; Page 6, [0065]).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Fishman's disclosure to implement secure cellular communication within an ad-hoc network.

Regarding claim 7, Craft discloses the value entity providing server according to Claim 5, wherein the public key is posted on a server accessible from a plurality of terminals through the cellular network (Page 4, [0043]).

Regarding claim 8, Craft discloses the value entity providing server according to Claim 5, further comprising second verifying means for verifying integrity of the communication terminal before the providing means provides the value entity (Page 5, [0048]).

6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Craft in view of Fishman in further view of Dwork.

Regarding claim 6, Craft in view of Fishman discloses all the particulars of the claim except that the value entity providing server according to Claim 5, wherein the providing means transmits the public key separately from the value entity to the communication terminal, prior to the provision of the value entity.

However, Dwork does disclose the value entity providing server according to Claim 5, wherein the providing means transmits the public key separately from the value entity to the communication terminal, prior to the provision of the value entity (Col 5, lines 40-50; Col 6, lines 15-19).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Dwork's disclosure to provide more security to the system, to prevent fraudulent eavesdroppers.

7. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Craft in view of White et al. (hereinafter White).

Regarding claim 10, Craft discloses all the particulars of the system except the application delivery means server according to claim 9, further comprising:

receipt transmitting means for, when the value entity acquiring means acquires the value entity, transmitting receipt data electronically expressing receipt of the value entity, via the ad-hoc network to the communication terminal.

However, White does disclose receipt transmitting means for, when the value entity acquiring means acquires the value entity, transmitting receipt data electronically expressing receipt of the value entity, via the ad-hoc network to the communication terminal (Page 2, [0016]; Page 7, claim 35).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate White's disclosure to send a receipt message for the data received to verify its transmission.

8. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Craft in view of Menard.

Regarding claim 11, Craft discloses all the particulars of the claim except the application delivery server according to Claim 9, further comprising third verifying means for verifying integrity of the communication terminal before the transmitting means transmits the application.

However, Menard does disclose a third verifying means for verifying integrity of the communication terminal before the transmitting means transmits the application (Page 7, [0112] – Page 8, [0118]).

It would have been obvious to one ordinarily skilled in the art at the time of invention to incorporate Menard's disclosure to provide a third security embodiment to secure communication between terminals.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Miyatsu, Kazuhiro discloses a Mobile internet solution using java application combined with local wireless interface

Ward, Jean Renard discloses a System and method for ad hoc management of credentials, trust relationships and trust history in computing environments

Kamada, Tomihisa discloses a Usage period management system for applications

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuck Huynh whose telephone number is 571-272-7866. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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